

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530669

Luminaire Tested: **GALN-SA5D-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16058 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



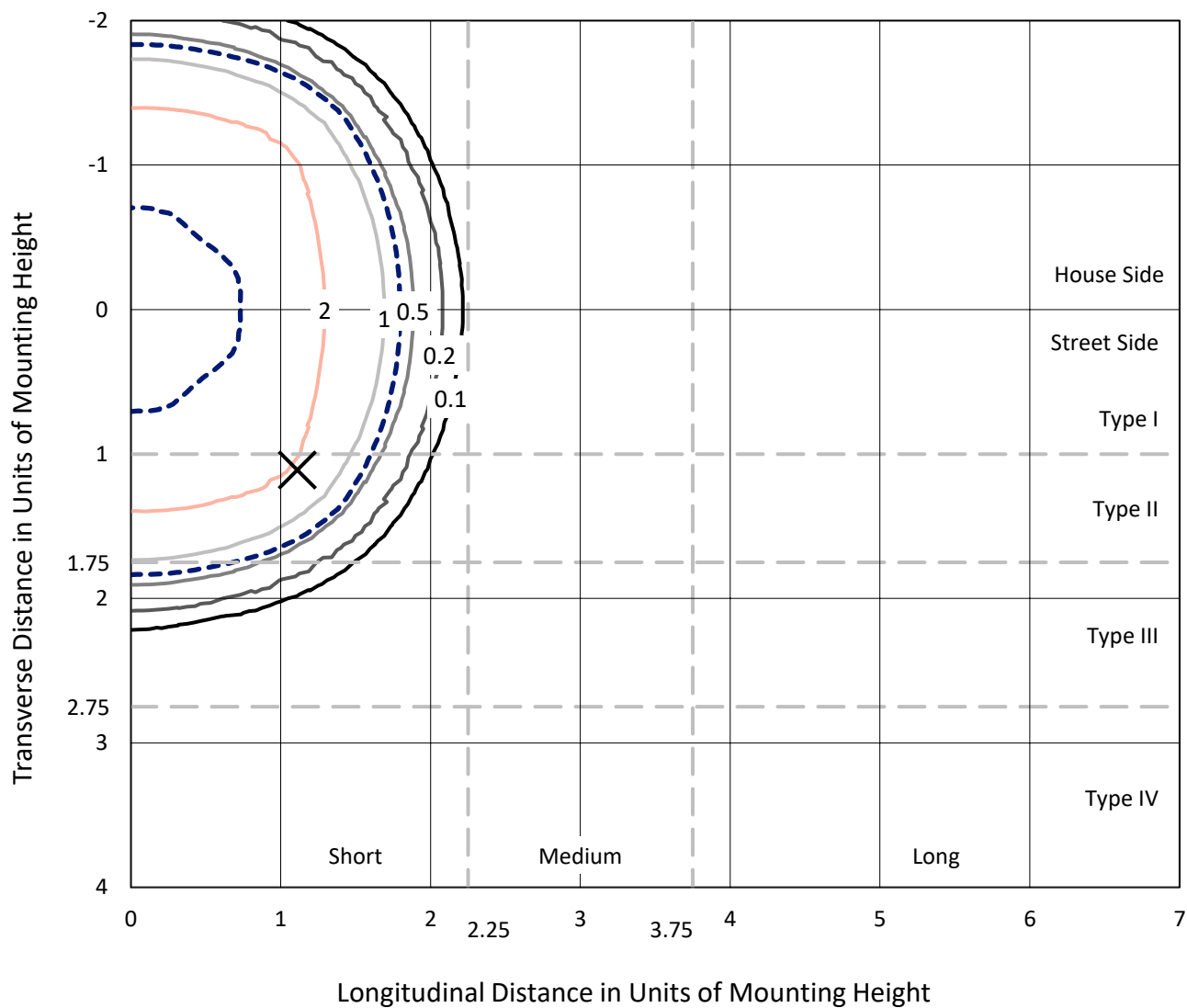
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



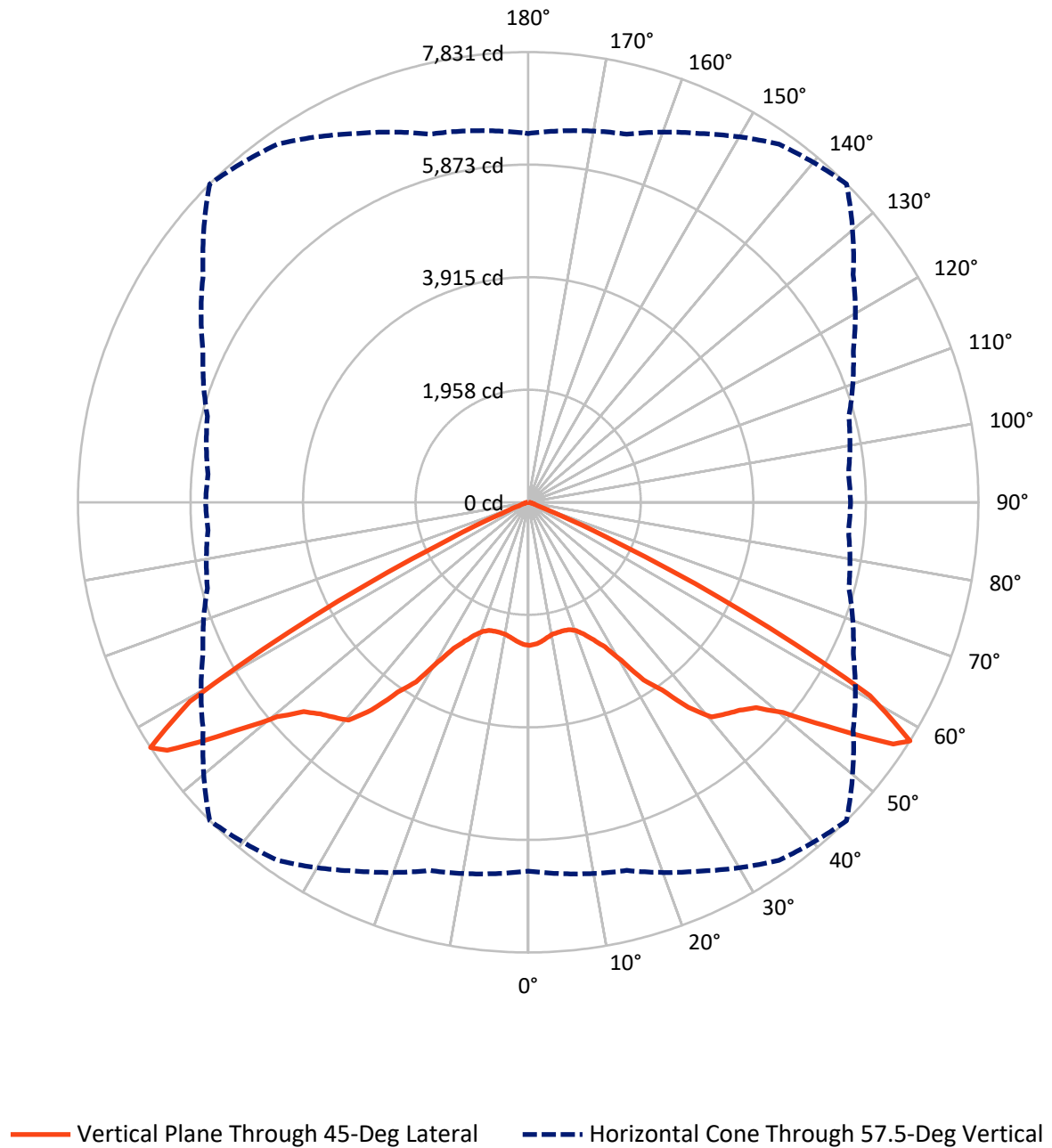
Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8029.0	0.0	8029.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8029.0	0.0	8029.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16058.0	0.0	16058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	1.4
10°-20°	661.6	4.1
20°-30°	1221.2	7.6
30°-40°	2401.7	15.0
40°-50°	3911.7	24.4
50°-60°	5578.5	34.7
60°-70°	1931.4	12.0
70°-80°	103.6	0.6
80°-90°	19.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16058.0	100.0
0°-180°	16058.0	100.0

Coefficient of Utilization



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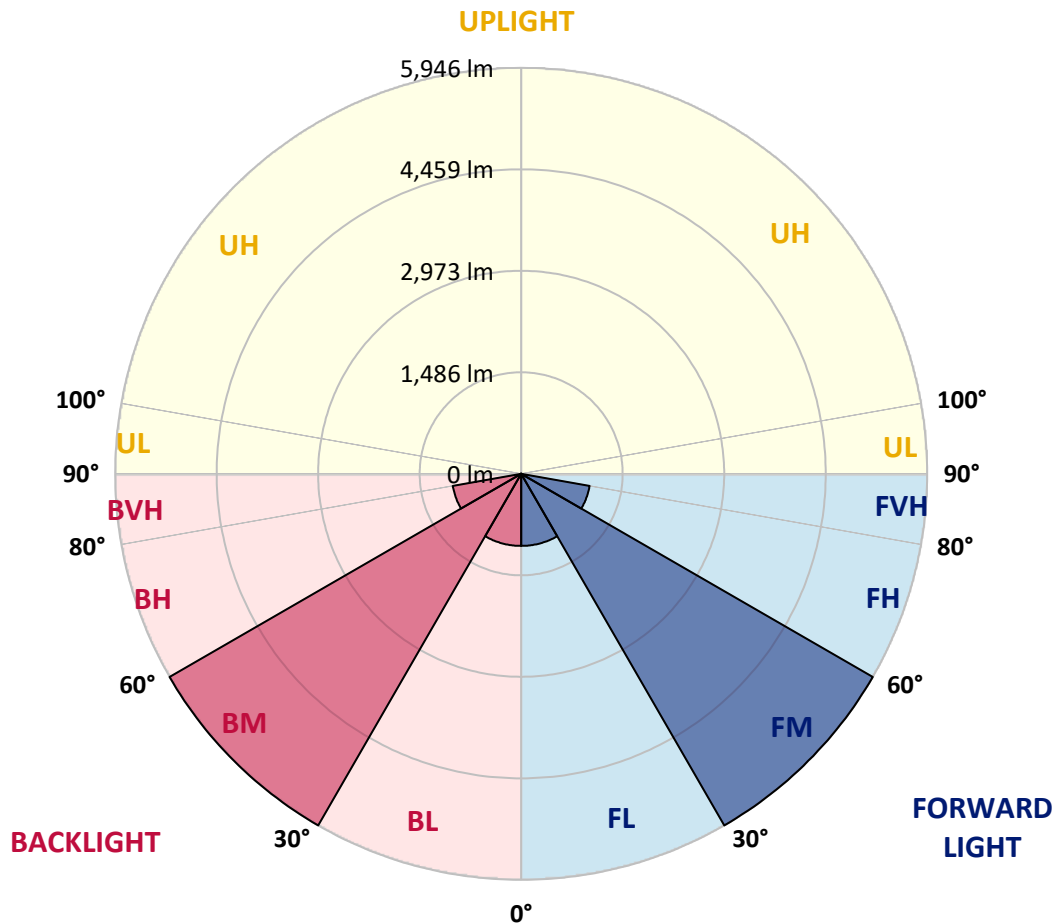
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.8	6.6			
FM	(30°-60°)	5945.9	37.0			
FH	(60°-80°)	1017.5	6.3			G1/1800
FVH	(80°-90°)	9.7	0.1			G0/10
BL	(0°-30°)	1055.8	6.6	B3/2500		
BM	(30°-60°)	5945.9	37.0	B4/8500		
BH	(60°-80°)	1017.5	6.3	B3/2500		G1/1800
BVH	(80°-90°)	9.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8
2.5°	2484.1	2497.5	2480.7	2474.0	2470.7	2470.7	2460.6	2460.6	2457.3	2460.6	2447.2
5°	2443.9	2457.3	2457.3	2453.9	2433.9	2430.5	2420.5	2413.8	2417.1	2403.7	2413.8
7.5°	2403.7	2413.8	2400.4	2397.0	2390.3	2376.9	2373.6	2343.5	2346.8	2346.8	2353.5
10°	2397.0	2393.7	2373.6	2356.9	2336.8	2333.4	2323.4	2316.7	2316.7	2313.3	2323.4
12.5°	2397.0	2380.3	2376.9	2340.1	2306.6	2320.0	2293.2	2276.5	2299.9	2306.6	2320.0
15°	2393.7	2410.4	2353.5	2336.8	2313.3	2316.7	2293.2	2276.5	2289.9	2296.6	2306.6
17.5°	2413.8	2403.7	2387.0	2353.5	2343.5	2330.1	2299.9	2286.5	2286.5	2303.3	2306.6
20°	2467.3	2440.5	2407.1	2390.3	2400.4	2383.6	2346.8	2296.6	2310.0	2323.4	2333.4
22.5°	2517.5	2497.5	2474.0	2464.0	2520.9	2494.1	2430.5	2373.6	2353.5	2376.9	2393.7
25°	2614.6	2614.6	2571.1	2584.5	2648.1	2651.5	2577.8	2477.4	2464.0	2474.0	2480.7
27.5°	2812.2	2822.2	2785.4	2798.8	2825.5	2849.0	2785.4	2701.7	2671.5	2668.2	2678.2
30°	3026.4	3046.5	3043.2	3100.1	3177.1	3190.5	3096.7	2959.5	2869.1	2852.3	2865.7
32.5°	3307.6	3317.7	3311.0	3377.9	3585.5	3682.6	3438.2	3244.0	3123.5	3153.6	3123.5
35°	3836.6	3826.5	3752.9	3766.3	3937.0	4007.3	3773.0	3649.1	3592.2	3652.5	3639.1
37.5°	4291.9	4255.1	4194.8	4281.8	4459.3	4522.9	4278.5	4060.9	3957.1	4057.5	4101.1
40°	4676.9	4583.1	4499.4	4586.5	4824.2	4911.2	4553.0	4375.6	4335.4	4409.1	4502.8
42.5°	5001.6	4941.4	4830.9	4837.6	4994.9	5035.1	4747.2	4643.4	4603.2	4720.4	4767.3
45°	5232.6	5175.7	5071.9	5065.2	5185.7	5159.0	4901.2	4830.9	4854.3	4931.3	4954.7
47.5°	5349.8	5379.9	5319.7	5336.4	5400.0	5336.4	5132.2	5132.2	5078.6	5125.5	5102.0
50°	5687.9	5594.2	5671.2	5671.2	5738.1	5744.8	5540.6	5467.0	5323.0	5242.7	5242.7
52.5°	6083.0	6089.7	6119.8	6230.3	6344.1	6441.2	6149.9	5835.2	5594.2	5490.4	5477.0
55°	6407.7	6474.6	6595.2	6802.7	7130.8	7264.7	6762.6	6200.1	5905.5	5744.8	5711.3
56°	6585.1	6521.5	6729.1	7013.6	7442.2	7616.2	6863.0	6273.8	5949.0	5768.3	5764.9
57.5°	6414.4	6484.7	6628.6	7077.3	7602.9	7830.5	6899.8	6240.3	5775.0	5590.8	5607.6
60°	5065.2	5132.2	5326.4	5828.5	6652.1	6829.5	5838.6	5145.6	4730.4	4466.0	4469.3
62.5°	2865.7	2915.9	3066.6	3531.9	4044.1	4214.9	3639.1	3177.1	2889.2	2741.8	2695.0
65°	1054.6	1034.5	1057.9	1295.6	1610.3	1754.2	1513.2	1278.9	1128.2	1074.6	1054.6
67.5°	395.0	364.9	341.5	364.9	458.6	485.4	445.3	371.6	348.2	358.2	364.9
70°	244.4	231.0	184.1	174.1	170.7	167.4	177.4	187.5	214.3	251.1	257.8
72.5°	170.7	160.7	130.6	123.9	117.2	113.8	130.6	144.0	167.4	194.2	197.5
75°	67.0	70.3	67.0	73.7	77.0	80.3	93.7	103.8	113.8	113.8	110.5
77.5°	13.4	13.4	20.1	26.8	33.5	43.5	63.6	73.7	77.0	73.7	63.6
80°	0.0	0.0	6.7	13.4	26.8	36.8	56.9	63.6	70.3	63.6	50.2
82.5°	0.0	0.0	6.7	16.7	26.8	33.5	53.6	67.0	77.0	70.3	53.6
85°	0.0	0.0	6.7	13.4	20.1	23.4	23.4	16.7	16.7	10.0	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)